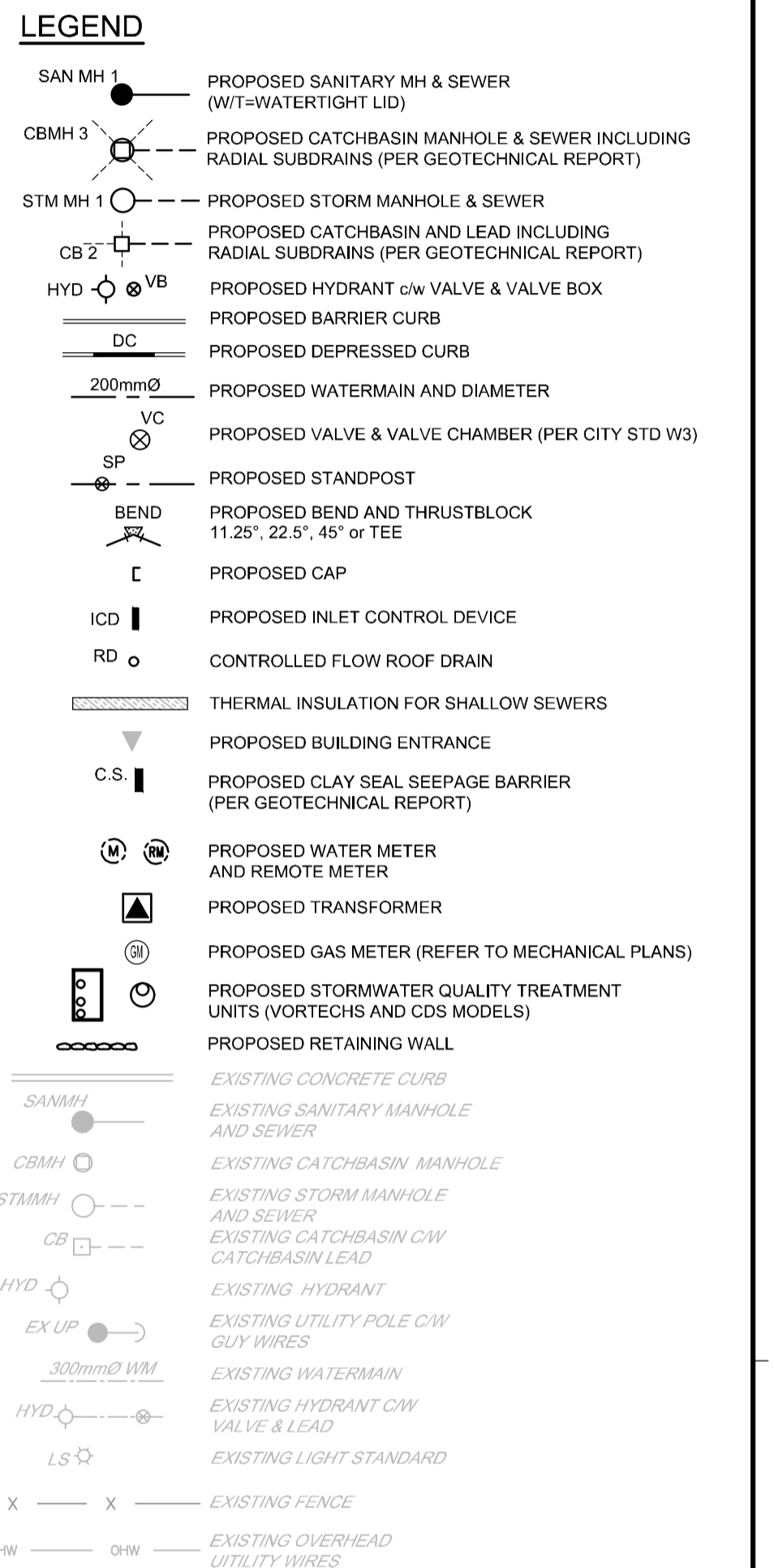
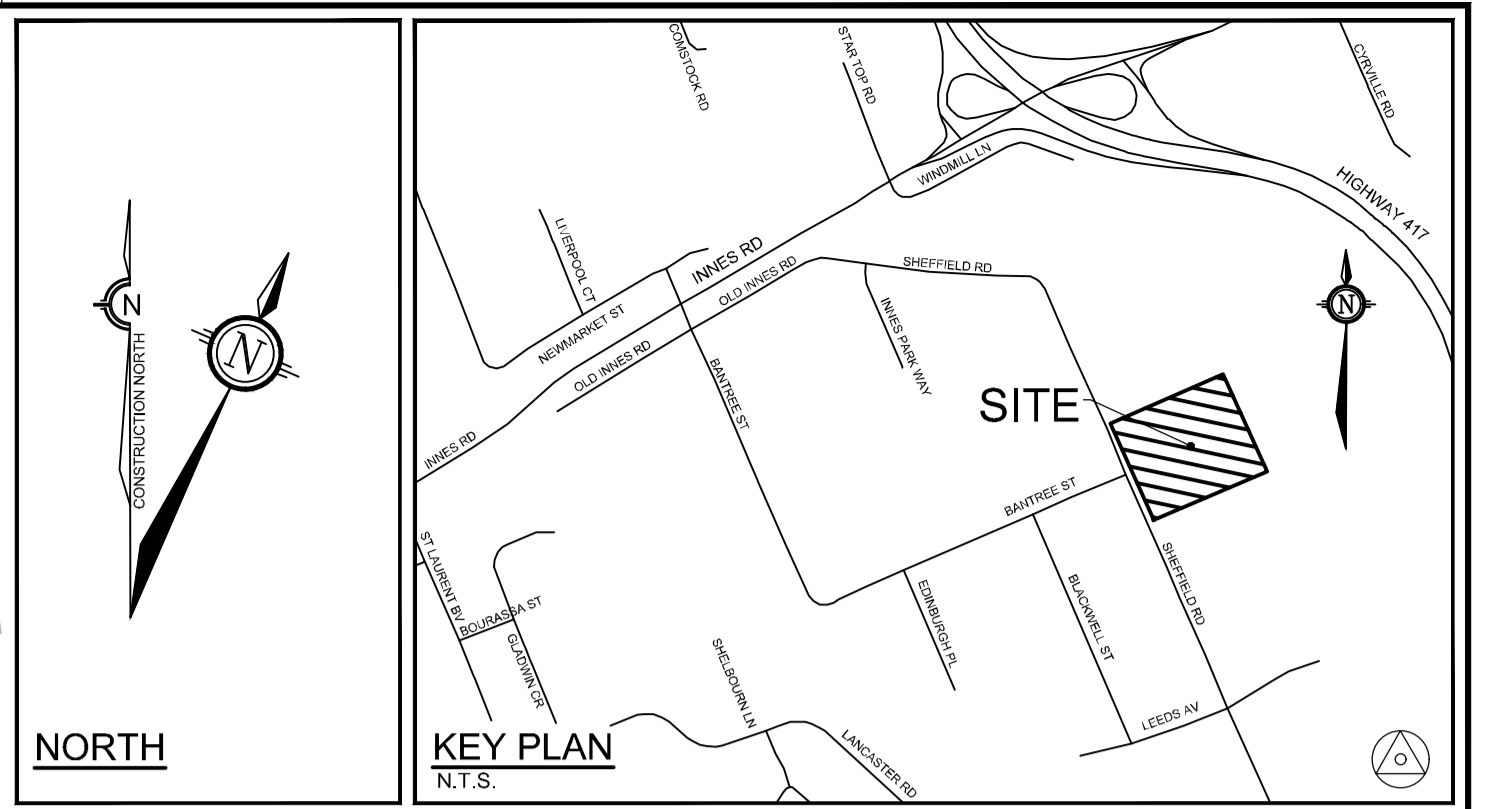


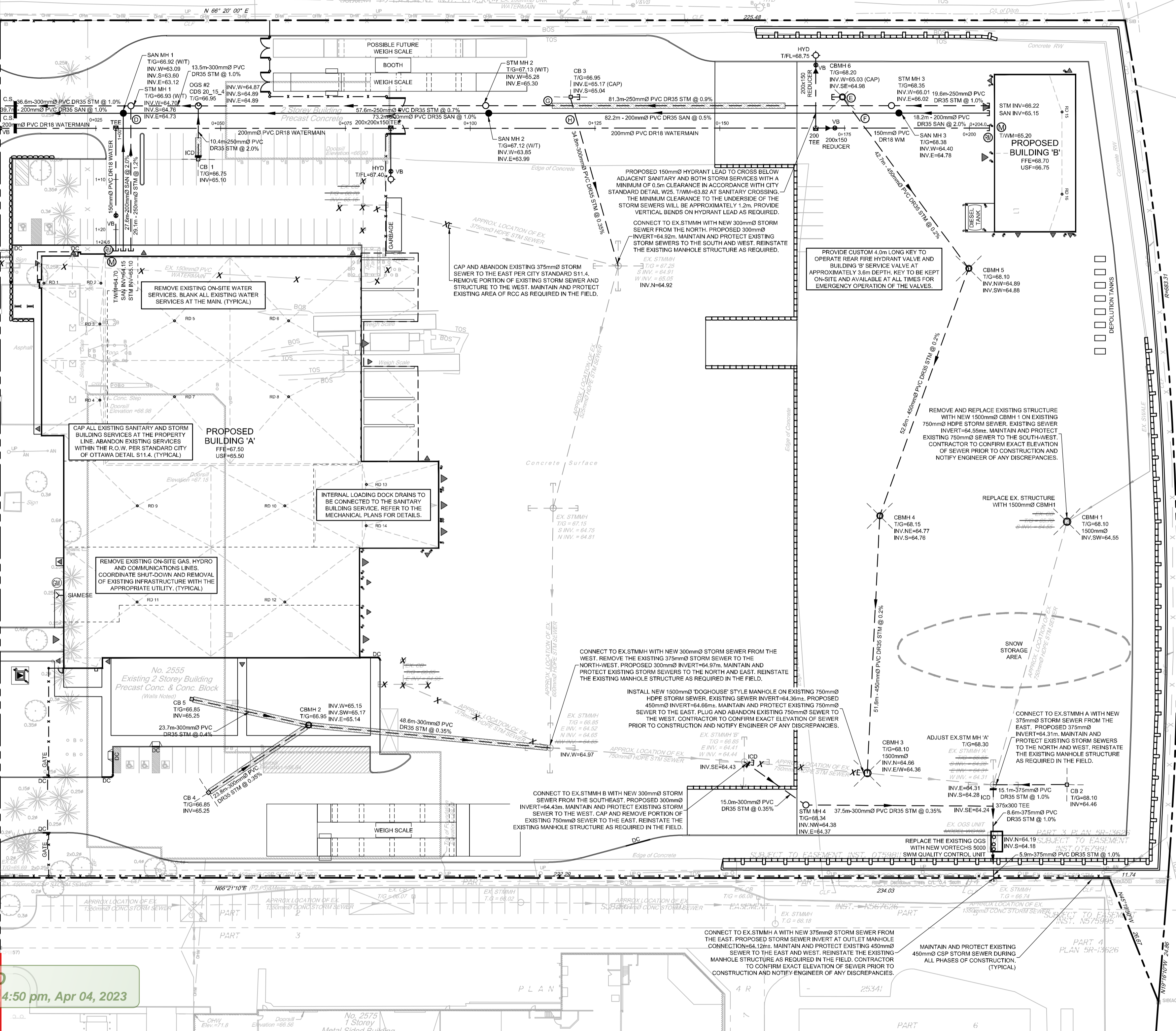
DESIGN EVENT	ICD TYPE	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	VOLUME (m³)	AVAILABLE STORAGE
1:2 YR	CIRCULAR PLUG c/w	250mmØ PVC	65.9	1.24	66.47	0.5	45.0 m³
1:5 YR	165mmØ ORIFICE @		74.1	1.61	66.84	5.3	
1:100 YR	OUTLET PIPE INVERT		76.3	1.72	66.95	42.9	

STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
1+00	66.87	64.35	200 x 200 x 150 SERVICE TEE (Ø=029.0)
1+10	66.90	64.50	---
1+17.2	67.08	64.68	150mmØ VALVE & VALVE BOX
1+24.3	67.33	64.70	CAP 1.0m FROM BUILDING FACE

CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE	SURFACE ELEVATION
(A)	200mmØ SAN OBV=62.94	1050mmØ STM INV=63.50	±0.5m	66.08 m
(B)	300mmØ T/WM=64.05	300mmØ STM INV=64.38	±0.3m	66.10 m
(C)	200mmØ SAN OBV=62.98	300mmØ US/WM=63.70	±0.7m	66.10 m
(D)	200mmØ SAN OBV=63.34	250mmØ STM INV=64.78	±1.4m	66.91 m
(E)	450mmØ STM OBV=65.43	250mmØ STM INV=65.94	±0.5m	67.00 m
(F)	200mmØ SAN OBV=64.56	450mmØ STM INV=64.97	±0.4m	67.03 m
(G)	300mmØ STM OBV=65.33	250mmØ STM INV=65.46	±0.13m	67.00 m
(H)	200mmØ SAN OBV=64.28	300mmØ STM INV=65.02	±0.7m	67.18 m



STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
0+000	66.08	64.05*	200mmØ TEE CONNECTION TO EX. 300mmØ WM
0+004.0	66.20	63.90	CROSS BELOW EX. 100mmØ GAS (±1.4m CLEARANCE)
0+005.8	66.25	63.85	PROPERTY LINE / 200mmØ VALVE & VALVE BOX
0+025	66.92	64.30	---
0+029.0	66.93	64.35	200 x 200 x 150 SERVICE TEE (1+00)
0+030.5	66.91	64.35	CROSS ABOVE 200mmØ SAN (±0.5m CLEARANCE)
0+032.0	66.88	64.35	CROSS BELOW 250mmØ STM (±0.5m CLEARANCE)
0+045.5	66.85	64.45	CROSS BELOW 250mmØ STM (±0.5m CLEARANCE)
0+084.1	67.17	64.65	200 x 200 x 150 HYDRANT TEE
0+100	67.20	64.65	---
0+121.7	67.25	64.65	CROSS BELOW 300mmØ STM (±0.4m CLEARANCE)
0+150	67.56	64.65	---
0+169.2	68.35	64.65	200 x 200 x 200 HYDRANT TEE
0+171.2	68.32	64.65	200 x 150 REDUCER
0+173.0	68.30	64.65	150mmØ VALVE & VALVE BOX
0+179.1	68.32	64.65	CROSS BELOW 450mmØ STM (±0.3m CLEARANCE)
0+200	68.62	64.95	---
0+204.0	68.68	65.20	CAP 1.0m FROM BUILDING FACE

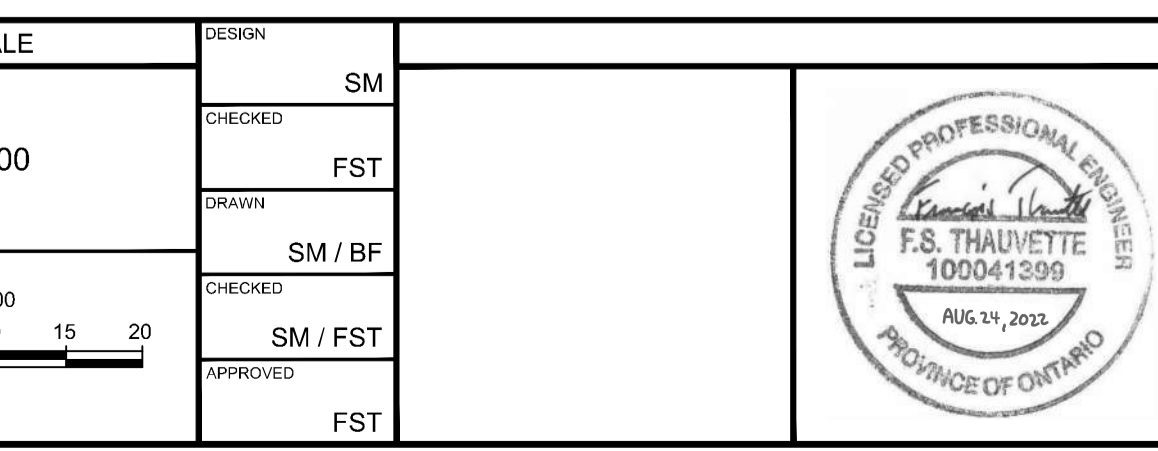


DESIGN EVENT	ICD TYPE	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	SURFACE VOLUME	AVAILABLE STORAGE
1:2 YR	CIRCULAR PLUG c/w	300mmØ PVC	112.5	2.19	66.77	84.5 m³	315 m³
1:5 YR	210mmØ ORIFICE @		117.6	2.44	67.02	84.5 m³	
1:100 YR	OUTLET PIPE INVERT		120.0	2.53	67.11	315 m³	

DESIGN EVENT	ICD TYPE	DIAMETER OF OUTLET PIPE (mm)	DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	SURFACE VOLUME	AVAILABLE STORAGE
1:2 YR	SLIDE-IN-PLACE ICD c/w	375mmØ PVC	49.4	2.30	67.76	28 m³	583 m³
1:5 YR	127mmØ ORIFICE @		61.9	3.51	67.97	28 m³	
1:100 YR	OUTLET PIPE INVERT		64.8	3.84	68.30	196 m³	

No.	REVISION	DATE	BY
11	REVISED REAR WORK YARD	AUG 24/22	FST
10	ISSUED FOR PERMIT REVISION	AUG 23/21	FST
9	ISSUED FOR CONSTRUCTION	JUL 7/21	FST

No.	REVISION	DATE	BY
8	ISSUED FOR ADDENDUM 02	JUL 27/20	FST
7	ISSUED FOR TENDER	JUL 7/20	FST
6	ISSUED TO CITY OF OTTAWA AND MECP	JUN 30/20	FST
5	ISSUED FOR PERMIT	JUN 26/20	FST
4	REVISED PER CITY COMMENTS / UPDATED SITE PLAN	MAY 29/20	FST
3	RE-ISSUED FOR SITE PLAN APPROVAL	MAR 26/20	FST
2	REVISED PER CITY COMMENTS / UPDATED SITE PLAN	JAN 31/20	FST
1	ISSUED FOR SITE PLAN APPROVAL	JUL 18/19	FST



**NOVATECH**  
Engineers, Planners & Landscape Architects  
Suite 200, 240 Michael Cowpland Drive  
Ottawa, Ontario, Canada K2M 1P6  
Telephone: (613) 254-9643  
Facsimile: (613) 254-5867  
Website: www.novatech-eng.com

LOCATION  
CITY OF OTTAWA  
2555 SHEFFIELD ROAD

DRAWING NAME  
GENERAL PLAN OF SERVICES

PROJECT No. 119007  
REV # 11  
DRAWING No. 119007-GP  
# 18013

CONNECT TO EXISTING 105mmØ STORM SEWER FROM ABOVE PER CITY STANDARD S11.1. EXISTING INVERT=63.50. PROPOSED 300mmØ STORM INVERT AT CONNECTION=64.35. CONTRACTOR TO CONFIRM EXACT ELEVATION OF SEWER PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES. ROAD CUT REINSTATEMENT AS PER CITY OF OTTAWA STANDARD R10.

CONNECT TO EXISTING 375mmØ SANITARY SEWER FROM ABOVE PER CITY STANDARD S11.1. EXISTING INVERT=62.77. PROPOSED 200mmØ SANITARY INVERT AT CONNECTION=62.98. CONTRACTOR TO CONFIRM EXACT ELEVATION OF SEWER PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES. ROAD CUT REINSTATEMENT AS PER CITY OF OTTAWA STANDARD R10.

200mmØ TEE CONNECTION TO EXISTING 300mmØ WATERMAIN BY CITY OF OTTAWA FORCES. EXCAVATION, BACKFILL, COLORATION AND REINSTATEMENT AS PER CONTRACTOR. ROAD CUT REINSTATEMENT AS PER CITY OF OTTAWA STANDARD R10.

REMOVE THE EXISTING ON-SITE WATER SERVICE. BLANK EXISTING SERVICE AT THE MAIN PER CITY OF OTTAWA STANDARDS.

REMOVE EXISTING ON-SITE WATER SERVICES AT THE MAIN (TYPICAL).

REMOVE EXISTING ON-SITE GAS, HYDRO AND COMMUNICATIONS LINES. COORDINATE SHUT-DOWN AND REMOVAL OF EXISTING INFRASTRUCTURE WITH THE APPROPRIATE UTILITY (TYPICAL).

CAP ALL EXISTING SANITARY AND STORM BUILDING SERVICES AT THE PROPERTY LINE. ABANDON EXISTING SERVICES WITHIN THE R.O.W. PER STANDARD CITY OF OTTAWA DETAIL S11.4 (TYPICAL).

INTERNAL LOADING DOCK DRAINS TO BE CONNECTED TO THE SANITARY BUILDING SERVICE. REFER TO THE MECHANICAL PLANS FOR DETAILS.

REMOVE EXISTING ON-SITE GAS, HYDRO AND COMMUNICATIONS LINES. COORDINATE SHUT-DOWN AND REMOVAL OF EXISTING INFRASTRUCTURE WITH THE APPROPRIATE UTILITY (TYPICAL).

CONNECT TO EX. STMMH WITH NEW 300mmØ STORM SEWER FROM THE WEST. REMOVE THE EXISTING 375mmØ STORM SEWER TO THE NORTH-WEST. PROPOSED 300mmØ INVERT=64.97m. MAINTAIN AND PROTECT EXISTING STORM SEWERS TO THE NORTH AND EAST. REINSTATE THE EXISTING MANHOLE STRUCTURE AS REQUIRED IN THE FIELD.

INSTALL NEW 150mmØ DOGHOUSE STYLE MANHOLE ON EXISTING 750mmØ HOPE STORM SEWER. EXISTING SEWER INVERT=64.36m. PROPOSED 450mmØ INVERT=64.60m. MAINTAIN AND PROTECT EXISTING 150mmØ SEWER TO THE EAST. PLUG AND ABANDON EXISTING 750mmØ SEWER TO THE WEST. CONTRACTOR TO CONFIRM EXACT ELEVATION OF SEWER PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

CONNECT TO EX. STMMH B WITH NEW 300mmØ STORM SEWER FROM THE SOUTHWEST. PROPOSED 300mmØ INVERT=64.42m. MAINTAIN AND PROTECT EXISTING STORM SEWERS TO THE WEST. CAP AND REMOVE PORTION OF EXISTING 750mmØ SEWER TO THE EAST. REINSTATE THE EXISTING MANHOLE STRUCTURE AS REQUIRED IN THE FIELD.

CONNECT TO EX. STMMH A WITH NEW 375mmØ STORM SEWER FROM THE EAST. PROPOSED STORM SEWER INVERT AT OUTLET MANHOLE CONNECTION=64.12m. MAINTAIN AND PROTECT EXISTING 450mmØ SEWER TO THE EAST AND WEST. REINSTATE THE EXISTING MANHOLE STRUCTURE AS REQUIRED IN THE FIELD. CONTRACTOR TO CONFIRM EXACT ELEVATION OF SEWER PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

MAINTAIN AND PROTECT EXISTING 450mmØ CSP STORM SEWER DURING ALL PHASES OF CONSTRUCTION. (TYPICAL)

**APPROVED**  
By Lily Xu at 4:50 pm, Apr 04, 2023

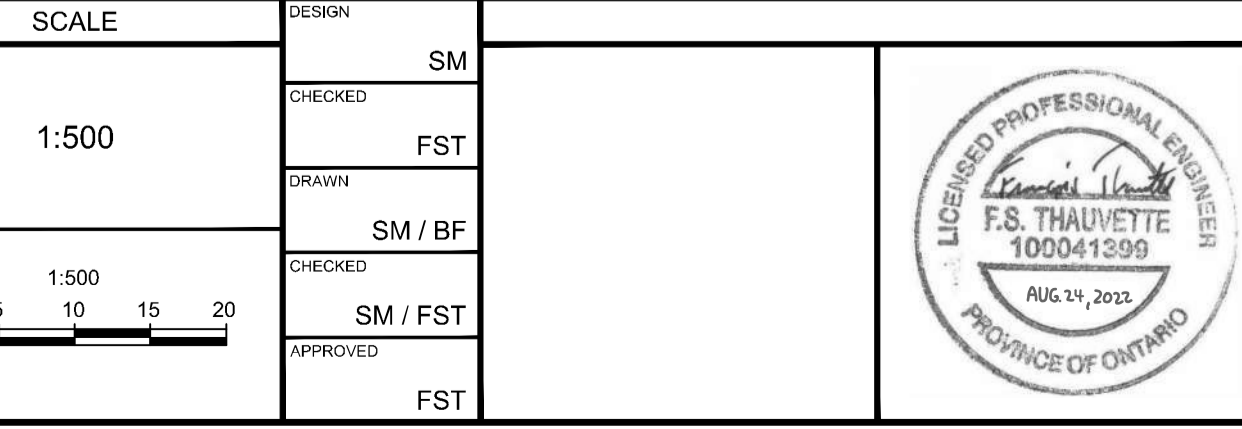
**LILY XU, MCIP, RPP**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

REFER TO PLAN 119007-NDT FOR NOTES,  
DETAILS AND TABLES. ALL NOTES, DETAILS  
AND SPECIFICATIONS ARE TO MEET THE  
CURRENT CITY AND PROVINCIAL STANDARDS.

NOTE:  
THE POSITION OF ALL POLE LINES, CONDUITS,  
WATERMANS, SEWERS AND OTHER  
UNDERGROUND AND OVERGROUND UTILITIES AND  
STRUCTURES IS NOT NECESSARILY SHOWN ON  
THE CONTRACT DRAWINGS, AND WHERE SHOWN,  
THE ACCURACY OF THE POSITION OF SUCH  
UTILITIES AND STRUCTURES IS NOT GUARANTEED.  
BEFORE STARTING WORK, DETERMINE THE EXACT  
LOCATION OF ALL SUCH UTILITIES AND  
STRUCTURES AND ASSUME ALL LIABILITY FOR  
DAMAGE TO THEM.

CLIENT CONTACT INFORMATION  
AMERICAN IRON & METAL (AIM)  
9100 BOULEVARD HENRI-BOURASSA EAST  
MONTREAL, QUEBEC, H1E 2S4  
c/o Christian Brisebois, Director,  
Engineering and Construction  
PHONE: (514) 494-2000 ext. 5975  
cbrisebois@aim-global.com

No.	REVISION	DATE	BY
8	ISSUED FOR ADDENDUM 02	JUL 27/20	FST
7	ISSUED FOR TENDER	JUL 7/20	FST
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1	ISSUED FOR SITE PLAN APPROVAL	JUL 18/19	FST



REFER TO PLAN 119007-OGP FOR THE OVERALL PROPERTY LIMITS

D07-12-19-0124